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Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the subject application:

Claims 1-9 (canceled).

10. (currently amended) The An ink-jet recording apparatus as claimed in claim-1, comprising:

a containing member which contains a recording medium which has a base member and granular material coated on both sides of the base member, and roughness of the surfaces of the recording medium coated granular material is smaller than the roughness of the base member;

a printing unit comprising an ink-jet recording head which jets recording liquid onto the recording medium; and

a conveyance unit and a conveyance path for conveying the recording medium, one side of which has been already printed, into the printing unit again in order to print an image onto the other side thereof.

wherein : the unit which said ink-jet recording apparatus enables the printing unit to print an image images on the recording medium such that the vertical orientations of the images formed printed on both sides of the recording medium are coincide with each other, and comprises:

wherein said ink-jet recording apparatus has a rotation control mechanism which rotates the orientation of the recording medium by substantially putting the recording medium on a tray and then rotating the tray by 180 degrees.

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11. (currently amended) An ink-jet recording apparatus comprising:

a containing member which contains a recording medium which has a base member and granular material coated on both sides of the base member, and roughness of the surfaces of the recording medium coated granular material is smaller than the roughness of the base member;

a printing unit comprising an ink-jet recording head which jets recording liquid onto the recording medium;

a conveyance unit and a conveyance path for conveying the recording medium, one side of which has been already printed, into the printing unit again in order to print an image onto the other side thereof; and

a unit which said ink-jet recording apparatus enables the printing unit to print images on the recording medium such that the vertical orientations of the images printed on both sides of the recording medium coincide with each other,

wherein:

the unit which enables the printing unit to print an image on the recording medium such that the vertical orientations of the images formed on both sides of the recording medium are ecincide with each other said ink-jet recording apparatus has [[:]] a memory for storing image data that is used for printing image on the back side of the recording medium, front side of which has been already printed; and

the unit said ink-jet recording apparatus sends the image data to the ink-jet recording head in the reverse order so that the image data is printed on the back side of the recording medium from bottom to top direction.

12. (currently amended) The An ink-jet recording apparatus as-claimed in-claim 1,

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comprising:

a containing member which contains a recording medium which has a base member and granular material coated on both sides of the base member, and roughness of the surfaces of the recording medium coated granular material is smaller than the roughness of the base member:

a printing unit comprising an ink-jet recording head which jets recording liquid onto the recording medium;

a conveyance unit and a conveyance path for conveying the recording medium, one side of which has been already printed, into the printing unit again in order to print an image onto the other side thereof; and

wherein : the unit, said ink-jet recording apparatus which enables the printing unit to print an image images on the recording medium such that the vertical orientations of the images formed printed on both sides of the recording medium are coincide with each other, comprises:

a twisted path provided on the conveyance path, the shape of which is twisted so that the front and back sides of the recording medium, which passes through the twisted path, is turned upside down for substantially 180 degrees.

13. (currently amended) An ink-jet copier comprising:

a scanner which reads an original image placed on an original table, so as to form image data therefrom in sequence;

a printing unit which jets ink onto a recording surface of a recording medium based on the image data provided from the scanner; and

a recording medium conveyance unit disposed below the printing unit for conveying and ejecting the recording medium in a predetermined timing according to the recording operation.

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a containing member which contains a recording medium having a base member and granular material coated on both sides of the base member, and roughness of the surface of the recording medium coated granular material is smaller than the roughness of the base member; and

a unit which enables the printing unit to print the images on the recording medium such that the vertical orientations of the images printed on both sides of the recording medium are coincide with each other,

wherein : the printing unit has a multi nozzle-type ink-jet recording head which jets ink
with a frequency from 1 kl Iz through 40 kHz per nozzle on demand, and the multiple nozzles of
the ink jet recording head are arranged so as to jet a plurality of colors of ink; and

the recording medium conveyance unit conveys the recording medium-into a position that faces the nozzle surfaces of the multi nozzle type ink-jet recording head and conveys the recording-medium, one-side of which has been already-printed, into the printing-unit again, including reversing the recording medium in order to print an image onto the other side thereof; and

the recording medium is temporarily stopped in a conveyance path said ink-jet copier has a memory for storing data that is sent to the printing unit in the reverse order for printing in the reverse direction between one side of the recording medium and the other side of the recording medium, wherein the reverse direction means from bottom to top direction.

14. (previously presented) The ink-jet copier as claimed in claim 13, wherein:
the unit which enables the printing unit to print an image on the recording medium such
that the vertical orientations of the images formed on both sides of the recording medium are
coincide with each other comprises:

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a rotation control mechanism which rotates the orientation of the recording medium by substantially 180 degrees.

Claims 15-20 (canceled).

21. (currently amended) An ink-jet recording apparatus comprising:

a containing member which contains a recording medium which has a base member and granular material coated on both sides of the base member, and roughness of the surfaces of the recording medium coated granular material is smaller than the roughness of the base member;

a printing unit comprising an ink-jet recording head which jets recording liquid onto the recording medium;

a conveyance unit and a conveyance path for conveying the recording medium, one side of which has been already printed, into the printing unit again, including reversing the recording medium in order to print an image onto the other side thereof; and

a unit said ink-jet recording apparatus which enables the printing unit to print images on the recording medium such that the vertical orientations of the images printed on both sides of the recording medium are coincide with each other,

wherein said ink-jet recording apparatus which enables the printing unit to print images on the recording medium such that the vertical orientations of the images formed on both sides of the recording medium are coincide with each other has a memory for storing data that is used sent to the ink-jet recording head in the reverse order for printing an image on one side of the recording medium in the reverse direction between one side of the recording medium and the other side of the recording medium, wherein the reverse direction means from bottom to top direction.